



CLASS VIII - COMPUTER SCIENCE NOVEMBER MONTH NOTES

CHAPTER 9 - Cybercrimes and Security

A. Tick () the correct option.

1. A crime that is carried out on the Internet using a computer is called.

(b) **Cybercrime**

2. Cyber bullying does not take place through which of these?

(c) **Newspaper**

3. _____ is a form of Internet fraud where cyber criminals steal valuable information. Which virus infects the Master Boot Record (MBR) of hard disks.

(b) **Boot sector virus**

B. Fill in the blanks.

1. Stealing a person's thought or language and presenting it as one's own in a written format is called **Cybercrime**

2. The unwanted e-mails and advertisements are collectively called as **Spam**.

3. A **Firewall** is a software tool that protects a server, a network or an individual computer from attack by viruses and hackers.

4. Avoid opening **Spam** e-mails and clicking on **link** in spam e-mails.

C. Write 'T' for true and 'F' for false for the following statements.

1. You should open e-mails from trusted sources only. **T**

2. You can share your personal details like login IDs, and passwords with your friends. **F**

3. Phishing is the act of stealing the personal information of a user. **T**

4. Firewalls are used to protect the computer by preventing unauthorised access. **T**

D. Short answer questions.

1. What is cybercrime?

Cybercrime is a crime that is carried out on the Internet using a computer.

People commit cybercrimes to steal the personal details of users' account details like debit card or credit card details or send fake e-mails and so on.

Some cybercrimes are also carried out to spread viruses on other computers connected to the Internet.

2. What is phishing?

- It is a form of Internet fraud where cyber criminals steal valuable information such as credit card details, Aadhar card numbers, PAN card numbers, user IDs, online banking, passwords.

- It is generally carried out through e-mails by people pretending to be organisations s like banks, insurance companies, and other organisations.

3. Name any two viruses.

- Boot Sector Virus
- Multipartite Virus

4. Name any two antiviruses.

- McAfee Antivirus
- Norton Antivirus

E. Long answer questions.

1. What is cyberbullying? How can you prevent it?

- Cyberbullying means harassing or bullying someone on the Internet.
- It includes any online action that makes a person.
- Cyberbullying takes place through SMS, Text, and apps, or online in social media, forums, or gaming where people can view, participate in, or share content.

Steps to prevent cyberbullying:

- Social media accounts are shut down or new ones appear.

2. What is a virus and explain its types?

VIRUS stands for Vital Information Resources Under Siege. A computer virus is a malicious program that can harm a computer machine and files stored in it.

A virus destroys the data stored in a computer, application programs or operating system, etc.

Types of virus:

- Boot Sector Virus: It is a type of virus that infects the Master Boot Record (MBR) of hard disks.
- Multipartite Virus: A virus that can attack both, the boot sector and the executable files of an already infected computer is called a multipartite virus.
- Overwrite Virus: One of the most harmful viruses, the overwrite virus can completely remove the existing program and replace it with the malicious code by overwriting it.
- Polymorphic Virus: It spreads through spam and infected websites, the polymorphic virus are file infectors that are complex and tough to detect.

3. Explain Spamming. How can you prevent it?

Spamming

Spams are unwanted e-mails that are sent automatically to multiple recipients for commercial advertising. It is a serious security concern as it can deliver viruses, Trojan horses, worms, spyware, and organised phishing attacks.

An e-mail is probably spammed if:

- You don't know the person who sent the e-mail.
- You are being asked to buy something or send cash.

- The e-mail is full of spelling and grammatical errors.

Protection Against Spam

- Do not respond to spam; just delete it.
- Install spam filters to check the entry of spam mail.

4. Explain briefly what the various ways to provide cyber security.

Antivirus:

An anti-virus is a software that comprises programs or a set of programs that can detect and remove all harmful and malicious software from the computer.

Proper Usage of Password:

The best method to protect the password from cracking, we have required to choose a strong password.

Protecting Our Passwords

- Longer the password, the better it is. But never less than 8 characters.
- It should cover the alphabets (both in capitals and small letters).
- Don't repeat your password.

Cookie

A cookie is a utility program used to track web browser activities.

Hackers can use cookies to gain access to the user's information. So it is advised to delete the cookies periodically to avoid this cyber threat.

Firewall

It is a network security system that protects the computer by preventing unauthorized users from gaining access to it.